



US009937358B2

(12) **United States Patent**  
**Schwarz et al.**

(10) **Patent No.:** **US 9,937,358 B2**  
(45) **Date of Patent:** **Apr. 10, 2018**

(54) **AESTHETIC METHODS OF BIOLOGICAL  
STRUCTURE TREATMENT BY MAGNETIC  
FIELD**

(71) Applicant: **BTL HOLDINGS LIMITED**, Nicosia  
(CY)

(72) Inventors: **Tomáš Schwarz**, Prague (CZ); **Ondra  
Prouza**, Říčany u Prahy (CZ)

(73) Assignee: **BTL Holdings Limited**, Nicosia (CY)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **15/446,951**

(22) Filed: **Mar. 1, 2017**

(65) **Prior Publication Data**

US 2017/0173347 A1 Jun. 22, 2017

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 15/396,073,  
filed on Dec. 30, 2016, which is a continuation-in-part  
of application No. 15/178,455, filed on Jun. 9, 2016,  
which is a continuation-in-part of application No.  
15/151,012, filed on May 10, 2016, which is a  
continuation-in-part of application No. 15/099,274,  
filed on Apr. 14, 2016, which is a continuation-in-part  
of application No. 15/073,318, filed on Mar. 17, 2016,  
which is a continuation-in-part of application No.  
14/951,093, filed on Nov. 24, 2015, which is a  
continuation-in-part of application No. 14/926,365,  
filed on Oct. 29, 2015, now abandoned, which is a  
continuation-in-part of application No. 14/789,658,  
(Continued)

(51) **Int. Cl.**

**A61N 2/00** (2006.01)

**A61N 2/02** (2006.01)

(52) **U.S. Cl.**

CPC ..... **A61N 2/006** (2013.01); **A61N 2/004**  
(2013.01); **A61N 2/02** (2013.01)

(58) **Field of Classification Search**

CPC ..... **A61N 2/00**; **A61N 2/002**; **A61N 2/004**;  
**A61N 2/006**; **A61N 2/008**; **A61N 5/06**;  
**A61K 41/0004**

USPC ..... **600/9-15**  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,163,161 A 12/1964 Courtin  
3,915,151 A 10/1975 Kraus

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 0209246 A1 1/1987  
EP 2676700 A2 12/2013

(Continued)

**OTHER PUBLICATIONS**

The Burn Centre Care, Education, 3 pages, printed from internet  
Nov. 13, 2017.\*

(Continued)

*Primary Examiner* — Samuel Gilbert

(74) *Attorney, Agent, or Firm* — Kenneth H. Ohriner;  
Perkins Coie LLP

(57) **ABSTRACT**

In a method for stimulation and treatment of a biological  
structure of a patient, the biological structure is treated by  
high power time-varying magnetic field. The treatment is  
followed by at least a partial muscle contraction. The  
method may be used in applications for non-invasive aes-  
thetic medicine.

**11 Claims, 4 Drawing Sheets**

